

STATE ROAD 114 (HOCKLEY COUNTY) LEVELLAND, TEXAS



EPA REGION 6 CONGRESSIONAL DISTRICT 19

EPA ID# TXSFN0605177
Site ID: 0605177

Contacts:
Vincent Malott 214-665-8313

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Current Status

A Proposed Plan describing EPA's preferred alternative for the ground water cleanup is planned for a public comment period beginning in December 2007. The draft Feasibility Study was completed in December 2006 and includes multiple technology alternatives to address the extensive ground water contamination and remaining source area, and an alternative water supply to address impacted residences and business dependent on private water supply wells. The Human Health Risk Assessment Report and the Ecological Risk Assessment Report have been completed. The remedial investigation report was completed in August 2005.

Benefits

Filtration systems have been installed on 31 impacted private drinking water wells to prevent exposure to the contaminants pending completion of a more permanent solution. The completed remedial investigation has identified the immediate and long-term threats to the local ground water supply, allowing further planning to address the health risks.

National Priorities Listing (NPL) History

NPL Inclusion Proposal Date:	July 19, 1999
NPL Inclusion Final Date:	October 22, 1999

Site Description

The State Road 114 Ground Water Plume site is an area of ground water contamination underlying the western boundary of the City of Levelland, Hockley County, Texas, approximately 31 miles due west of Lubbock. The population of Levelland is approximately 13,000. The land use over the plume area is mostly agricultural with pockets of light commercial or residential development. There are 28 impacted private drinking water wells in the area of the plume.

The site consists of a 1,2-dichloroethane (DCA) and benzene plumes in the Ogallala Aquifer that extends from west to east (in the direction of ground water flow) along State Highway 114 for approximately 1 ½ miles from the former Motor Fuels Corporation (MFC) property to the City of Levelland municipal park. The ground water plume is approximately a mile wide, bounded roughly by Ellis Road to the north and Houston Avenue to the south. Analyses of samples collected during site investigations to date indicate maximum benzene concentrations of 19,000 ppb and maximum DCA concentrations of 380 ppb. EPA has established a maximum contaminant level (MCL) of 5 ppb for both DCA and benzene in drinking water. The businesses and residences in the plume area are dependent on private wells for drinking water or irrigation. The City of Levelland is dependent on ground water for approximately 1/3 of its drinking water supply. The Ogallala aquifer is the only source of high-quality drinking water in the site area. The saturated zone is approximately 150 feet below ground surface and varies in thickness from 40 to 90 feet. Clays form the base of the aquifer. Ground water flow in the aquifer is to the east.

Wastes and Volumes

The proposed cleanup goal for DCA and benzene in the ground water is 5 ppb. The DCA/benzene plumes defined by the 5 ppb limit extends approximately 1 ½ miles from the former Motor Fuels refinery, and is over ½ mile wide. The Ogallala aquifer supplies drinking water to private residences and municipalities as well as water for irrigation across West Texas. The land above the plume is not affected by the contamination and remains in active agricultural use as well as residential and light commercial development.

Health Considerations

EPA installed 25 filtration units on private water supply wells in the project area impacted by DCA contamination over the MCL of 5 ppb. TCEQ maintains and monitors the water quality at each of these wells.

Record of Decision (ROD)

A Record of Decision is pending completion of the Feasibility Study and issuance of the Proposed Plan for public comment.

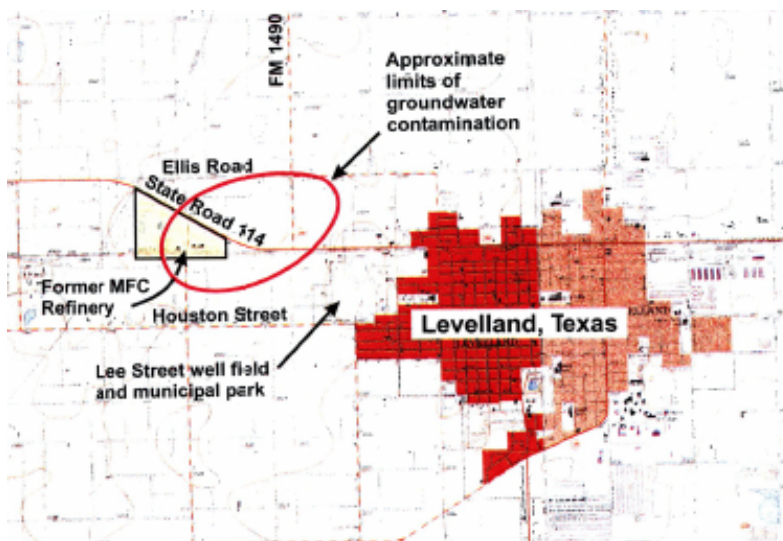
Site Contacts

EPA Remedial Project Manager:	Vincent Malott	214-665-8313
EPA Site Attorney:	Joseph Compton	214-665-8506
EPA Regional Public Liaison:	Arnold Ondarza	214-665-6701
TCEQ Project Manager	Diane Poteet	512-239-2502

EPA Superfund Region 6 Toll Free Number: 1-800-533-3508

Information Repository: Hockley County Library, 802 Houston Street, Suite 108, Levelland, Texas 79336 (806) 894-6750

Site Map



The boundary of the DCA plumes (5ppb) in the upper and lower portions of the Ogallala aquifer are illustrated on the following map by the green line (upper portion) and red line (lower portion).

